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CLAIM AMENDMENTS

1 to 7. (Cancelled)

 (Currently Amended) A method for detecting the presence of polynucleotide sequences encoding at least a portion of telomerase in a biological sample, comprising the steps of:

a)-providing a biological-cample-suspected of containing a polynucloatide encoding at least a portion of telemerase;

b) determining a nucleotide sequence contained in the polynucleotide;

c)-comparing the sequence determined in step b) with telemerase metits 0, 1, 2, and 3; and

d) deciding that the sample contains a polynucleotide sequence encoding at least a portion of telemerase if the sequence determined in step b) contains malife 0, 1, 2, and 3

a) obtaining an amino acid sequence encoded in a polynucleotide contained in the biological sample:

b) comparing the amino acid sequence with the telomerase amino acid motif

W-X12-FFY-X1-TE.

wherein Xn is a sequence of "n" unspecified amino acids; and then

c) determining that the sample contains a polynucleotide encoding at least a portion of telomerase if the sequence obtained in step a) contains said telomerase amino acid motif.

9 to 12. (Cancelled)

- (Withdrawn) An antisense molecule comprising the nucleic acid sequence complementary to at least a portion of the nucleotide of SEQ. ID NO:100.
- (Withdrawn) A pharmaceutical composition comprising the antisense molecule of claim 13, and a
 pharmaceutically acceptable exciplent.

15 to 17. (Cancelled)

(Withdrawn) A purified antibody which binds specifically to a polypeptide comprising at least a
portion of the amino acid sequence of SEQ, ID NO:101.

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- (Withdrawn) A pharmaceutical composition comprising the antibody of claim 18 and a pharmaceutically acceptable excipient.
- 20. (Withdrawn) A method for detecting the expression of human telomerase in a biological sample comprising the steps of:
 - a) providing:
 - i) a biological sample suspected of expressing human telomerase protein; and ii) the antibody of claim 18;
 - b) combining said biological sample and said antibody under conditions such that an antibody:protein complex is formed; and
 - c) detecting said complex wherein the presence of said complex correlates with the expression of said protein in said biological sample.
- (Currently Amended) The method of claim 8, wherein the telomerase is a telomerase of a singlecelled eukaryotic-cell eukaryote.
- (Previously Presented) The method of claim 8, wherein the telomerase is a mammalian telomerase.
- 23. (Previously Presented) The method of claim 8, wherein the telomerase is a human telomerase.
- (Currently amended) The method of claim 8, wherein the telemerase polynucleotide contains SEQ. ID NO:100.
- (New) The method of claim 8, further comprising comparing the sequence determined in step b) with the reverse transcriptase motif R-X²-PK-X¹-R-X¹-I.
- (New) The method of claim 8, further comprising comparing the sequence determined in step b) with the reverse transcriptase motif F-X³-D-X³-CYD.

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27. (New) The method of claim 8, comprising deciding that the sample contains a polynucleotide sequence encoding at least a portion of telomerase if the sequence determined in step b) contains the amino acid motif

h1-X1-W-h2-X4-h3-X2-h4-h5-h6-h7-FFY-X1-TE,

wherein

h, is L or 1;

h₂ is L or I;

h₃ is V or I;

h4 is L or I;

hs is L or I;

he is R or Q; and hais S. Tor C.